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IWAKAMI et al.(10) **Pub. No.: US 2021/0317394 A1**(43) **Pub. Date: Oct. 14, 2021**(54) **CELL CULTURE SYSTEM AND CELL MASS
PRODUCTION METHOD USING SAME****Publication Classification**(71) Applicant: **NISSAN CHEMICAL
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(57) **ABSTRACT**

A cell culture system for dividing and subculturing cell aggregates is constituted by connecting a first container **10** and a divider **20**. An outlet of a divider is connected to the first container. A mesh structure **22** for dividing a cell aggregate is provided in a conduit for dividing in the divider **20**, and a cell aggregate is divided while passing through the mesh structure. The divided cell aggregate is sent to the first container **10** without contacting the outside air in a preferred embodiment, where further culture is performed. This makes it possible to divide the cell aggregate and perform suspension culture while maintaining the closed system. The division and suspension culture of cell aggregates can be repeated by sending the cultured cell aggregates to a divider of its own cell culture system or a divider of a cell culture system prepared separately.

